

WHAT IS CLAIMED IS:

1. A reactor for reacting a feedstock, said reactor comprising,  
  
a fixed catalyst bed for reaction of said feedstock, said reactor containing a bypass apparatus disposed within said fixed catalyst bed,  
  
said bypass apparatus being aligned with the direction of flow of said feedstock, and wherein said bypass apparatus comprise  
  
a cage member comprising a first elongated hollow member having a top wall, sidewalls and a bottom wall, said cage member having openings therein, and  
  
a second hollow elongated member for passing said feedstock therethrough, said second hollow elongated member being disposed within and protruding through said top wall of said cage member and wherein said second elongated member extends above said catalyst bed through said cage member.
2. The reactor of claim 1 wherein the said second hollow elongated member is a tubular member having a diameter from about 0.25 to about 12 inches.
3. The reactor of claim 1 wherein said cage member is a tubular member having a diameter of about 3 to about 20 inches.
4. The reactor of claim 1 wherein said second hollow elongated member has a pressure drop of about 5 to about 50 times greater than that of said top layer of said catalyst bed when said catalyst bed is a fresh catalyst bed.



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11. The method of claim 9 wherein said feedstock is selected from the group consisting of hydrocarbon feedstocks, chemical feedstocks, and mixtures thereof.

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